

GAS DISTRIBUTION SHOWERHEAD

ABSTRACT OF THE DISCLOSURE

A gas distribution showerhead for use in a semiconductor fabrication process features a face plate having gas outlet ports in the form of elongated slots or channels. The use of elongated gas outlet ports in accordance with embodiments of the present invention substantially reduces the incidence of undesirable spotting and streaking of deposited material where the showerhead is closely spaced from the wafer. A showerhead featuring a face plate having a tapered profile to reduce edge thickness of deposited material at close face plate-to-wafer spacings is also disclosed.

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